

Waveguide Mixer Down Converter WR-12 From 60 GHz to 90 GHz, IF From DC to 18 GHz And LO Power of +13 dBm, UG-387/U Flange, E Band



## Waveguide Converters - PE12D1001

#### **Features**

- · E Band (60 to 90 GHz) full waveguide Down converter
- Broad IF Frequency Range: DC to 18 GHz
- · LO Drive level: +13 dBm nominal
- RF & LO Ports: WR-12 with UG-387/U-MOD Flange

#### **Applications**

- Receiver Subsystems
- Military Communications

- Double Balanced design
- · Low Capacitance GaAs Schottky Beam Lead diodes
- Gold Plated Compact Package Design
- Operating Temperature: 0°C to +50°C
- Commercial Communications
- Instruments and Test Equipment

#### Description

The PE12D1001 is a full waveguide band down converter mixer with an LO and RF frequency range of 60 to 90 GHz (E Band). The IF frequency range is DC to 18 GHz with a nominal LO drive level of +13 dBm. The double balanced circuit design utilizes high performance GaAs Schottky beam lead diodes. Conversion loss is 8.5 dB typical and flat across the entire frequency band. The gold plated compact package design uses integrated WR-12 with UG-387/U-MOD waveguide flange interfaces for the RF and LO ports and a female SMA connector for the IF port.

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	60		90	GHz
LO Frequency Range	60		90	GHz
IF Frequency Range	DC		18	GHz
Conversion Loss		8.5		dB
LO Connector Power		13	15	dBm

#### **Mechanical Specifications**

Temperature Operating Range

Size Length Width Height Weight 0 to +50 deg C

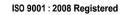
1.4 in [35.56 mm] 0.75 in [19.05 mm] 0.75 in [19.05 mm] 0.0625 lbs [28.35 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Waveguide Mixer Down Converter WR-12 From 60 GHz to 90 GHz, IF From DC to 18 GHz And LO Power of +13 dBm, UG-387/U Flange, E Band PE12D1001

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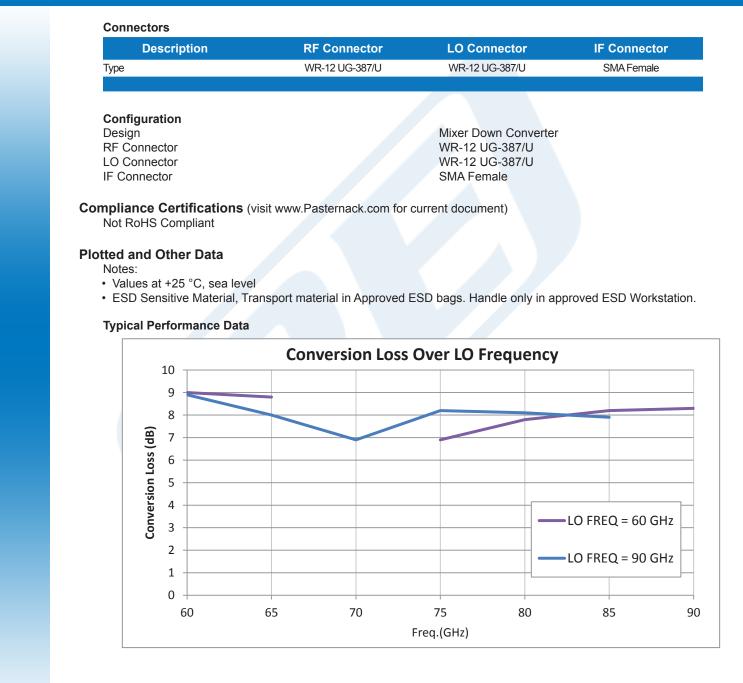




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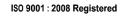


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Waveguide Mixer Down Converter WR-12 From 60 GHz to 90 GHz, IF From DC to 18 GHz And LO Power of +13 dBm, UG-387/U Flange, E Band from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: http://www.pasternack.com/waveguide-mixer-down-converter-wr-12-60-90-ghz-if-18-ghz-pe12d1001-p.aspx

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### PE12D1001 CAD Drawing

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